

EQ Line

LiION
BATTERY TECHNOLOGY



EQ LINE PRELIMINARY SPECIFICATIONS
COMPACT PEDESTRIAN STACKER
WITH MONO MAST
24V, 1.2 TONNES

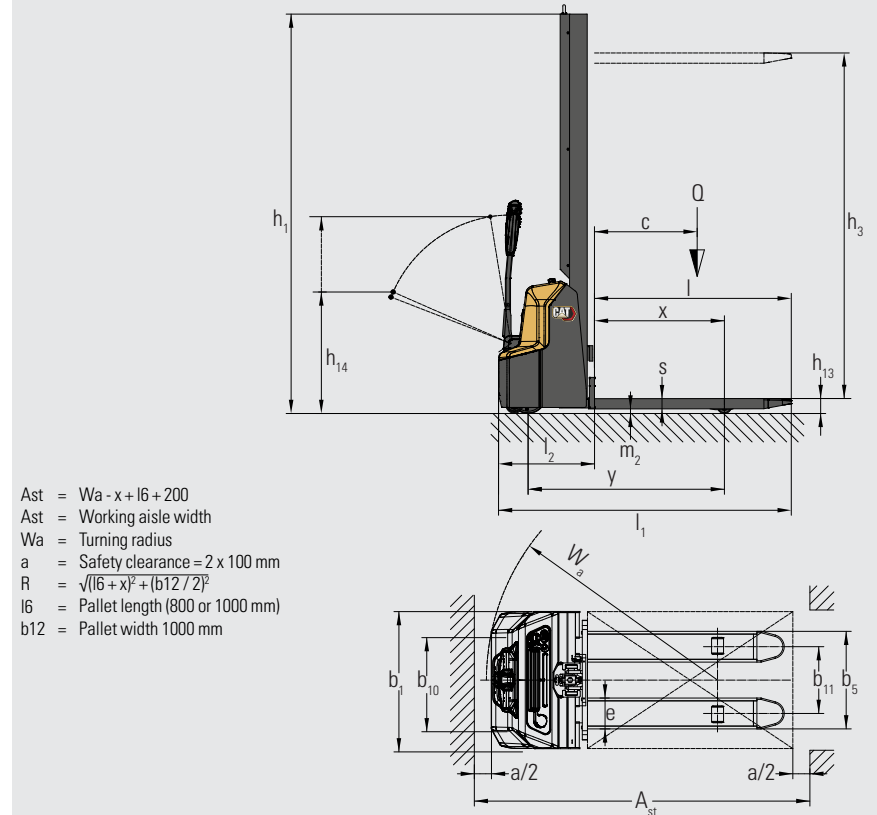
NSP12Q2LM

VERSATILITY IN A SMALL PACKAGE

DO IT ALL WITH ONE LITTLE LIFT TRUCK
This economical, versatile and space-saving truck is ideal for light duties in warehouses, supermarkets and production areas. It's even small enough to take into vans and elevators. You can use it for short shuttle applications, stacking up to 2.0 metres, filling store shelves and order picking.

CAT[®]

Characteristics				
1.1	Manufacturer			Cat Lift Trucks
1.2	Manufacturer's model designation			NSP1202LM
1.3	Power source			Battery
1.4	Operator type			Pedestrian
1.5	Load capacity	Q	(kg)	1200
1.6	Load centre distance	c	(mm)	600
1.8	Load wheel axle to fork face (forks lowered)	x	(mm)	760
1.9	Wheelbase	y	(mm)	1147
Weight				
2.1b	Truck weight without load, with maximum battery weight		kg	500
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	490/1210
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	355/145
Wheels, Drive Train				
3.1	Tyres: PT=Power Thane, Vul=Vulkollan, P=Polyurethane, N=Nylon, R=Rubber drive/load side			P / P
3.2	Tyre dimensions, drive side		(mm)	210 x 75
3.3	Tyre dimensions, load side	ø	(mm)	84 x 93
3.4	Castor wheel dimensions (diameter x width)		(mm)	100 x 50
3.5	Number of wheels, load/drive side (x=driven)			1x + 1 / 2
3.6	Track width (centre of tyres), drive side	b10	(mm)	550
3.7	Track width (centre of tyres), load side	b11	(mm)	400
Dimensions				
4.2a	Height with mast lowered	h1	(mm)	see table
4.3	Free lift	h2	(mm)	see table
4.4	Lift height (stroke)	h3	(mm)	see table
4.5	Height with mast extended	h4	(mm)	see table
4.9	Height of tiller arm / steering console (min./max.)	h14	(mm)	710 / 1150
4.15	Fork height, fully lowered	h13	(mm)	90
4.19	Overall length	l1	(mm)	1710
4.20	Length to fork face	l2	(mm)	560
4.21	Overall width	b1	(mm)	800
4.22	Fork dimensions (thickness, width, length)	s / e / l	(mm)	60 / 180 / 1150
4.25	Outside width over forks (minimum-maximum)	b5	(mm)	570
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2	(mm)	24
4.33a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	(mm)	2197
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	(mm)	2145
4.35	Turning radius	Wa	(mm)	1350
Performance				
5.1	Travel speed, with / without load		km / h	4.2 / 4.5
5.2	Lifting speed, with / without load		m / s	0.11 / 0.14
5.3	Lowering speed, with / without load		m / s	0.13 / 0.11
5.8	Maximum gradeability with / without load		%	5 / 10
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electromagnetic
Electric motors				
6.1	Drive motor capacity (60 min. short duty)		kW	0.65
6.2	Lift motor output at 15% duty factor		kW	2.2
6.4	Battery voltage/capacity at 5-hour discharge		V / Ah	24 / 60
6.5	Battery weight		kg	17
6.6b	Energy consumption according to VDI 60 cycle		kWh / h	0.6
Miscellaneous				
8.1	Type of drive control			DC
10.7.1	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ		dB (A)	<70



$A_{st} = W_a - x + l_6 + 200$
 A_{st} = Working aisle width
 W_a = Turning radius
 a = Safety clearance = 2 x 100 mm
 $R = \sqrt{(l_6 + x)^2 + (b_{12} / 2)^2}$
 l_6 = Pallet length (800 or 1000 mm)
 b_{12} = Pallet width 1000 mm

NSP1202LM					
Mast Type	h1	h3+h13	h3	h2	h4
	mm	mm	mm	mm	mm
Mono	1210	800	714	714	1210
	1930	1600	1514	1514	1930
	2330	2000	1914	1914	2385

Mast Performance and Capacity

h_3 = Lifting height
 h_{13} = Fork height, fully lowered
 h_1 = Lowered mast height
 h_5 = Initial lift
 h_4 = Raised mast height
 h_2 = Free lift height

STANDARD EQUIPMENT AND OPTIONS

GENERAL	NSP1202LM
Mono mast 800mm	○
Mono mast 1600mm	○
Mono mast 2000mm	○
Forks: 570 x 1150mm	○
Forks: 685 x 1150mm	○
24V/60Ah Li-ion battery	●
25A charger	●
Curtis controller	●
BMS (battery management system)	●
Speed reduction at turning	●
Single fork roller	●
Onboard charger	●
PIN code access with LCD display on tiller	●
RFID access	●
UK plug	○
USB connector	●

Standard
 Option

CAT LIFT TRUCKS QUALITY – FOR EVEN THE SMALLEST JOBS

Our EQ line warehouse trucks have everything you need for dependable, entry-level materials handling. That includes sturdy construction, simple maintenance, energy-efficient features, robust performance, user-friendly design, and safety. A product line for light applications. If that's what you need to get your job done, the EQ line is your perfect choice.

Highly manoeuvrable, and with a tight turning circle, this truck is ideal for narrow spaces. Its clear-view mast and small body make it easy to see and position loads at ground level and upwards.

Compactness, low weight, high stability and ergonomic tiller-arm control make the truck quick and comfortable in operation. Pallet load handling is smooth and strong, thanks largely to the high-quality forks and modern AC drive motor.

Initial lift is optionally available to increase ground clearance, for smooth travel over ramped and uneven surfaces. It also enables double pallet handling, with one load on the support legs and one on the forks.

Durable construction and minimal maintenance needs mean low servicing bills. Together with a low price, long service life and economical energy consumption, these factors reduce your total cost of operation (TCO).



LOWER COST OF OWNERSHIP

- High-quality, robust construction – including impact-resistant steel chassis cover – ensures reliable operation over a long lifetime, with minimal servicing and repair needs.
- AC drive motor promises a long service life with low maintenance needs.
- Li-ion batteries give maximum lifespan, efficiency and runtime, with no need for water top-ups or other maintenance.
- Display includes fault warnings, enabling timely attention to prevent damage.
- Fast plug-in diagnostics, troubleshooting and programming – via an external port – reduce downtime and maintain efficient performance.
- Convenient PIN code access and keyless start, supported by RFID tags, prevents unauthorised use and saves time.

UNMATCHED PRODUCTIVITY

- Compact and stable design enables fast, safe performance with great manoeuvrability.
- Small size combines with efficient steering for a tight turning radius and easy use in narrow aisles.
- Light weight makes the truck ideal for use on mezzanines.
- Automatic cornering speed reduction avoids loss of stability.
- Clear-view mono masts give excellent forward vision and are available with maximum lifts up to 2.0 metres.
- Initial lift (optional) raises mast and forks to give increased ground clearance – for better performance on ramps, dock levellers and uneven floors.
- Double pallet handling design of initial lift option allows lifting and carrying of two loads simultaneously, with one on the support legs and one on the forks.

- 24V/60Ah high-capacity Li-ion battery gives powerful performance and long runtime between charges.
- Li-ion technology makes continuous operation possible, without battery changes, using fast opportunity charging during short breaks.
- Internal charger allows simple plugging in to any suitable electrical socket, wherever you are.
- Advanced battery management system (BMS) optimises power, lifetime and safety.
- Battery level display supports optimal timing of battery charging/changing.

SAFETY AND ERGONOMICS

- Ergonomic spring-loaded tiller arm provides a comfortable grip and low-effort operation for maximum control with minimal fatigue or strain.
- Multifunctional tiller head conveniently places controls within easy reach and enables one-handed operation.
- Turtle/creep speed button allows manoeuvring with tiller arm vertical, for safe movement through narrow spaces.
- Li-ion battery chemistry means no risk of hazardous gas or acid leaks.

EQ LINE LI-ION BATTERIES

Our EQ line warehouse trucks come equipped with lithium-ion (Li-ion) battery technology.

A great advantage of Li-ion is that it allows the use of opportunity charging. Instead of exchanging batteries between shifts, you can simply plug into a fast charger during short breaks. Your business will also enjoy the other efficiency, environmental and safety benefits outlined here.



LONGER LIFE

– 3 to 4 times lead-acid lifespan –
reduces overall battery investment



FASTER CHARGING

– enables full charge in as little as
1 hour with the fastest chargers



HIGHER EFFICIENCY

– energy losses during charging and
discharging are up to 30% lower, so
electricity consumption is reduced



NO BATTERY CHANGING

– fast opportunity charging –
15 minutes for several hours of
extra runtime – makes operation
convenient with just one battery and
minimises the need to buy, store and
maintain spares



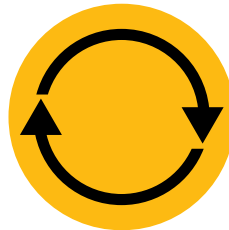
LONGER RUNTIME

– thanks to more efficient battery
performance and use of opportunity
charges, which can be given at any
time without damaging the battery or
shortening its lifespan



NO DAILY MAINTENANCE

– the battery stays on board the
truck for charging and there is
no need for water top-ups or
electrolyte checks



CONSISTENTLY HIGH PERFORMANCE

– with a more constant voltage curve
– maintains truck performance even
as battery charge gets low



INBUILT PROTECTION

– intelligent battery management
system (BMS) automatically
prevents excessive discharge,
charge, voltage and temperature, as
well as virtually eliminating misuse

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